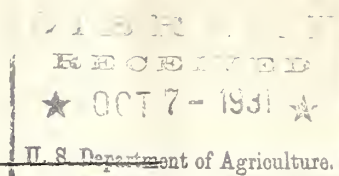


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HOWELL NURSERIES
Knoxville - Tennessee



SUMMER BEDDING LIST
-- 1931 --

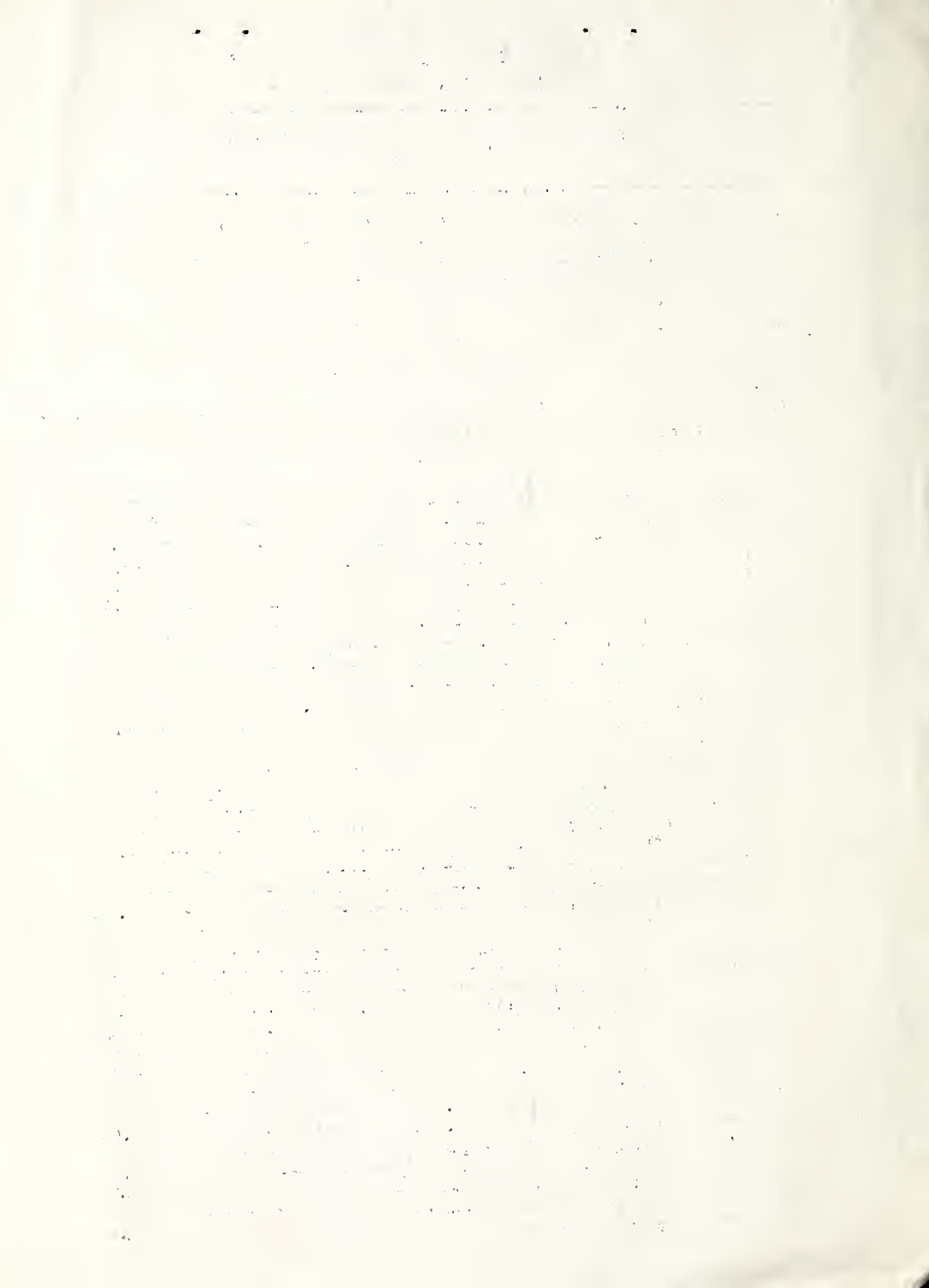
Subject to usual terms we are offering the following list of potted plants which are all well established and in fine shape for immediate bedding. We would call your attention to the necessity of keeping up your stock so that when normal conditions obtain you will be in position to do business as usual.

All of these plants are available now; but our list is constantly changing and some of them are liable to be exhausted at any time and others added - all in 2 inch pots unless otherwise noted.

You are invited to visit us either at Knoxville or Sweetwater.

If interested in finished stock send for our fall list which will be completed in a short time.

	each
Abelia grandiflora -----	.05
Azalea amoena -----	.10
" fijumanyo -----	.15
" hinodegiri -----	.10
" indica alba -----	.10
" macrantha -----	.10
" yodogawa -----	.12
Berberis atropurpurea -----	.06
Biota aurea nana -----	.10
" bakeri -----	.10
Box Wood, rooted cuttings -----	.03
Cedrus deodara -----	.10
Cephalotaxus harringtonia fastigiata -----	.12
Crepe myrtle, best purple -----	.08
" " - Wm. Toovey, best red -----	.08
Cryptomeria japonica -----	.10
Eleagnus fruitlandi -----	.08
" round leaf -----	.08
English laurel -----	.10
Euonymus japonica -----	.05
" microphylla -----	.05
" radicans -----	.05
" " variegata -----	.08
Heliopsis pitcheriana -----	.05
Hypericum calycinum -----	.05
" patulum henryii -----	.05
Ilex opaca -----	.10
Juniperus ashfordi -----	.07
" chinensis densa glauca (stricta) -----	.10
" depressa plumosa -----	.12
" douglassi aurea -----	.08
" hibernica -----	.07
" japonica sylvestris -----	.10
" nana -----	.12
" pfitzeriana -----	.10
" sabina -----	.08
" stricta -----	.08



	each
Kolkwitzia -----	.10
Ligustrum coriaceum -----	.15
" lucidum -----	.08
" ovalifolium aureum -----	.07
Liriope graminifolia -----	.05
Lonicera nitida -----	.06
Myosotis -----	.05
Nandina domestica -----	.07
Osmanthus aquifolium -----	.12
Retinospora filifera -----	.10
" " aurea -----	.12
" leptoclada -----	.10
" obtusa aurea crispata -----	.15
" " " " 3 inch pots -----	.35
" " nana ----- 3 inch pots -----	.35
" pisifera aurea -----	.10
" squarrosa sieboldii -----	.10
" " veitchii -----	.10
Rose - American Pillar -----	.05
" Aviateur Bleriot -----	.05
" Bess Lovett -----	.05
" Dr. Avery -----	.05
" Dr. Van Fleet -----	.05
" Dorothy Perkins -----	.05
" Emily Gray -----	.05
" Silver Moon -----	.05
" Tausendschon -----	.05
Spiraea filipendula -----	.06
" trichocarpa -----	.08
Thuja globosa -----	.08
" hoveyi -----	.08
" lobbi -----	.08
" plicata pyramidalis -----	.10
" pyramidalis -----	.10
" warreana -----	.10
Veronica, royal blue -----	.05
" subsessilis -----	.05
Viburnum rhytidophyllum -----	.12

The first part of the paper is devoted to a general
 discussion of the problem. It is shown that the
 problem is equivalent to finding a solution of the
 following system of equations:

$$\begin{aligned}
 & \frac{dx}{dt} = f(x, y, z) \\
 & \frac{dy}{dt} = g(x, y, z) \\
 & \frac{dz}{dt} = h(x, y, z)
 \end{aligned}$$

where x, y, z are functions of t . The second part
 of the paper is devoted to a detailed study of the
 case in which f, g, h are linear functions of x, y, z .
 It is shown that in this case the system of equations
 can be solved by the method of variation of parameters.
 The third part of the paper is devoted to a study of
 the case in which f, g, h are nonlinear functions of
 x, y, z . It is shown that in this case the system of
 equations can be solved by the method of successive
 approximations. The fourth part of the paper is devoted
 to a study of the case in which f, g, h are functions
 of x, y, z and t . It is shown that in this case the
 system of equations can be solved by the method of
 separation of variables. The fifth part of the paper is
 devoted to a study of the case in which f, g, h are
 functions of x, y, z and t . It is shown that in this
 case the system of equations can be solved by the method
 of separation of variables. The sixth part of the paper
 is devoted to a study of the case in which f, g, h are
 functions of x, y, z and t . It is shown that in this
 case the system of equations can be solved by the method
 of separation of variables. The seventh part of the paper
 is devoted to a study of the case in which f, g, h are
 functions of x, y, z and t . It is shown that in this
 case the system of equations can be solved by the method
 of separation of variables. The eighth part of the paper
 is devoted to a study of the case in which f, g, h are
 functions of x, y, z and t . It is shown that in this
 case the system of equations can be solved by the method
 of separation of variables. The ninth part of the paper
 is devoted to a study of the case in which f, g, h are
 functions of x, y, z and t . It is shown that in this
 case the system of equations can be solved by the method
 of separation of variables. The tenth part of the paper
 is devoted to a study of the case in which f, g, h are
 functions of x, y, z and t . It is shown that in this
 case the system of equations can be solved by the method
 of separation of variables.